

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

101578, S21
J-17-06

Source:

Date Processed by STIC:

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

**FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT
MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221**

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05): U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER:

10/578,521

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1 Wrapped Nucleics Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2 Invalid Line Length The rules require that a line **not exceed** 72 characters in length. This includes white spaces.

3 Misaligned Amino Numbering The numbering under each 5th amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.

4 Non-ASCII The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please ensure your subsequent submission is saved in ASCII text.**

5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6 PatentIn 2.0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**

7 Skipped Sequences (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for **each** skipped sequence:
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped
 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.

8 Skipped Sequences (NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for **each** skipped sequence.
 <210> sequence id number
 <400> sequence id number
 000

9 Use of n's or Xaa's (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is **MANDATORY** if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10 Invalid <213> Response Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence

11 Use of <220> Use of <220> to <223> is **MANDATORY** if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

12 PatentIn 2.0 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13 Misuse of n/Xaa "n" can **only** represent a single nucleotide; "Xaa" can **only** represent a single amino acid



IFWP

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/578,521

DATE: 05/17/2006
TIME: 10:12:56

Input Set : A:\50413.015001.txt
Output Set: N:\CRF4\05172006\J578521.raw

3 <110> APPLICANT: Chun, Jong-Yoon
5 <120> TITLE OF INVENTION: Method for Amplifying Unknown DNA Sequence Adjacent to Known
6 Sequence
8 <130> FILE REFERENCE: 50413/015001
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/578,521
C--> 10 <141> CURRENT FILING DATE: 2006-05-08
10 <150> PRIOR APPLICATION NUMBER: PCT/KR2003/002407
11 <151> PRIOR FILING DATE: 2003-11-10
13 <160> NUMBER OF SEQ ID NOS: 28
15 <170> SOFTWARE: PatentIn version 3.3
17 <210> SEQ ID NO: 1
18 <211> LENGTH: 33
19 <212> TYPE: DNA
20 <213> ORGANISM: Artificial Sequence *Pls explain source of genetic material (Pg. 1-5)*
22 <220> FEATURE:
23 <223> OTHER INFORMATION: DW-ACP1-A *INVALID Response*
26 <220> FEATURE:
27 <221> NAME/KEY: misc_feature
28 <222> LOCATION: (22)..(28)
29 <223> OTHER INFORMATION: n denotes deoxyinosine
31 <400> SEQUENCE: 1
W--> 32 tcacagaagt atgccaagcg annnnnnnag gtc
35 <210> SEQ ID NO: 2
36 <211> LENGTH: 33
37 <212> TYPE: DNA
38 <213> ORGANISM: Artificial Sequence *Pls explain source of genetic material*
40 <220> FEATURE:
41 <223> OTHER INFORMATION: DW-ACP1-C *INVALID Response*
44 <220> FEATURE:
45 <221> NAME/KEY: misc_feature
46 <222> LOCATION: (22)..(28)
47 <223> OTHER INFORMATION: n denotes deoxyinosine
49 <400> SEQUENCE: 2
W--> 50 tcacagaagt atgccaagcg annnnnnnncg gtc
53 <210> SEQ ID NO: 3
54 <211> LENGTH: 33
55 <212> TYPE: DNA
56 <213> ORGANISM: Artificial Sequence
58 <220> FEATURE:
59 <223> OTHER INFORMATION: DW-ACP1-T *SAME error*
62 <220> FEATURE:
63 <221> NAME/KEY: misc_feature
64 <222> LOCATION: (22)..(28)

33

~ See item #11
on error summary sheet 5/17/2006

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/578,521

DATE: 05/17/2006
TIME: 10:12:56

Input Set : A:\50413.015001.txt
Output Set: N:\CRF4\05172006\J578521.raw

65 <223> OTHER INFORMATION: n denotes deoxyinosine
67 <400> SEQUENCE: 3
W--> 68 tcacagaagt atgccaagcg annnnnnnntg gtc
71 <210> SEQ ID NO: 4
72 <211> LENGTH: 33
73 <212> TYPE: DNA
74 <213> ORGANISM: Artificial Sequence
76 <220> FEATURE:
77 <223> OTHER INFORMATION: DW-ACP1-G
80 <220> FEATURE:
81 <221> NAME/KEY: misc_feature
82 <222> LOCATION: (22)..(28)
83 <223> OTHER INFORMATION: n denotes deoxyinosine
85 <400> SEQUENCE: 4
W--> 86 tcacagaagt atgccaagcg annnnnnnngg gtc 33
89 <210> SEQ ID NO: 5
90 <211> LENGTH: 33
91 <212> TYPE: DNA
92 <213> ORGANISM: Artificial Sequence
94 <220> FEATURE:
95 <223> OTHER INFORMATION: DW-ACP-2
98 <220> FEATURE:
99 <221> NAME/KEY: misc_feature
100 <222> LOCATION: (26)..(29)
101 <223> OTHER INFORMATION: n denotes deoxyinosine
103 <400> SEQUENCE: 5
W--> 104 tcacagaagt atgccaagcg aggggnnnng gtc 33
107 <210> SEQ ID NO: 6
108 <211> LENGTH: 33
109 <212> TYPE: DNA
110 <213> ORGANISM: Artificial Sequence
112 <220> FEATURE:
113 <223> OTHER INFORMATION: DW-ACP2-NA
116 <220> FEATURE:
117 <221> NAME/KEY: misc_feature
118 <222> LOCATION: (26)..(28)
119 <223> OTHER INFORMATION: n denotes deoxyinosine
121 <400> SEQUENCE: 6
W--> 122 tcacagaagt atgccaagcg aggggnnnnag gtc 33
125 <210> SEQ ID NO: 7
126 <211> LENGTH: 33
127 <212> TYPE: DNA
128 <213> ORGANISM: Artificial Sequence
130 <220> FEATURE:
131 <223> OTHER INFORMATION: DW-ACP2-NC
134 <220> FEATURE:
135 <221> NAME/KEY: misc_feature
136 <222> LOCATION: (26)..(28)
137 <223> OTHER INFORMATION: n denotes deoxyinosine

Same errors
✓ 33

See item
11 on
error
Summary
Sheet.

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/578,521

DATE: 05/17/2006
TIME: 10:12:56

Input Set : A:\50413.015001.txt
Output Set: N:\CRF4\05172006\J578521.raw

139 <400> SEQUENCE: 7
W--> 140 tcacagaagt atgccaagcg aggggnncg gtc
143 <210> SEQ ID NO: 8
144 <211> LENGTH: 33
145 <212> TYPE: DNA
146 <213> ORGANISM: Artificial Sequence
148 <220> FEATURE:
149 <223> OTHER INFORMATION: DW-ACP2-NT
152 <220> FEATURE:
153 <221> NAME/KEY: misc_feature
154 <222> LOCATION: (26)..(28)
155 <223> OTHER INFORMATION: n denotes deoxyinosine
157 <400> SEQUENCE: 8
W--> 158 tcacagaagt atgccaagcg aggggnntg gtc 33
161 <210> SEQ ID NO: 9
162 <211> LENGTH: 33
163 <212> TYPE: DNA
164 <213> ORGANISM: Artificial Sequence
166 <220> FEATURE:
167 <223> OTHER INFORMATION: DW-ACP2-NG
170 <220> FEATURE:
171 <221> NAME/KEY: misc_feature
172 <222> LOCATION: (26)..(28)
173 <223> OTHER INFORMATION: n denotes deoxyinosine
175 <400> SEQUENCE: 9
W--> 176 tcacagaagt atgccaagcg aggggnnnng gtc 33
179 <210> SEQ ID NO: 10
180 <211> LENGTH: 33
181 <212> TYPE: DNA
182 <213> ORGANISM: Artificial Sequence
184 <220> FEATURE:
185 <223> OTHER INFORMATION: DW-ACP3-N1
188 <220> FEATURE:
189 <221> NAME/KEY: misc_feature
190 <222> LOCATION: (22)..(25)
191 <223> OTHER INFORMATION: n denotes deoxyinosine
193 <400> SEQUENCE: 10
W--> 194 tcacagaagt atgccaagcg annnnggggg gtc 33
197 <210> SEQ ID NO: 11
198 <211> LENGTH: 33
199 <212> TYPE: DNA
200 <213> ORGANISM: Artificial Sequence
202 <220> FEATURE:
203 <223> OTHER INFORMATION: DW-ACP3-N2
206 <220> FEATURE:
207 <221> NAME/KEY: misc_feature
208 <222> LOCATION: (23)..(26)
209 <223> OTHER INFORMATION: n denotes deoxyinosine
211 <400> SEQUENCE: 11

33
SAME
errors

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/578,521

DATE: 05/17/2006
TIME: 10:12:56

Input Set : A:\50413.015001.txt
Output Set: N:\CRF4\05172006\J578521.raw

W--> 212 tcacagaagt atgccaagcg agnnnnnggg gtc
215 <210> SEQ ID NO: 12
216 <211> LENGTH: 33
217 <212> TYPE: DNA
218 <213> ORGANISM: Artificial Sequence
220 <220> FEATURE:
221 <223> OTHER INFORMATION DW-ACP3-N3
224 <220> FEATURE:
225 <221> NAME/KEY: misc_feature
226 <222> LOCATION: (24)..(27)
227 <223> OTHER INFORMATION: n denotes deoxyinosine
229 <400> SEQUENCE: 12

W--> 230 tcacagaagt atgccaagcg aggnnnnnggg gtc 33

233 <210> SEQ ID NO: 13
234 <211> LENGTH: 20
235 <212> TYPE: DNA
236 <213> ORGANISM: Artificial Sequence
238 <220> FEATURE:
239 <223> OTHER INFORMATION Nested DW-P3-N
241 <400> SEQUENCE: 13
242 ccaagcgagg gggggggggc 20
245 <210> SEQ ID NO: 14
246 <211> LENGTH: 29
247 <212> TYPE: DNA
248 <213> ORGANISM: Artificial Sequence
250 <220> FEATURE:
251 <223> OTHER INFORMATION: DW-P1-A
254 <220> FEATURE:
255 <221> NAME/KEY: misc_feature
256 <222> LOCATION: (22)..(24)
257 <223> OTHER INFORMATION: n is any base
259 <400> SEQUENCE: 14

W--> 260 tcacagaagt atgccaagcg annnagggtc 29

263 <210> SEQ ID NO: 15
264 <211> LENGTH: 29
265 <212> TYPE: DNA
266 <213> ORGANISM: Artificial Sequence
268 <220> FEATURE:
269 <223> OTHER INFORMATION: DW-P1-C
272 <220> FEATURE:
273 <221> NAME/KEY: misc_feature
274 <222> LOCATION: (22)..(24)
275 <223> OTHER INFORMATION: n is any base
277 <400> SEQUENCE: 15

W--> 278 tcacagaagt atgccaagcg annncggtc 29

281 <210> SEQ ID NO: 16
282 <211> LENGTH: 29
283 <212> TYPE: DNA
284 <213> ORGANISM: Artificial Sequence

73
Sample

ERRO~~RS~~

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/578,521

DATE: 05/17/2006
TIME: 10:12:56

Input Set : A:\50413.015001.txt
Output Set: N:\CRF4\05172006\J578521.raw

286 <220> FEATURE:
287 <223> OTHER INFORMATION: DW-P1-T
290 <220> FEATURE:
291 <221> NAME/KEY: misc_feature
292 <222> LOCATION: (22)..(24)
293 <223> OTHER INFORMATION: n is any base
295 <400> SEQUENCE: 16

W--> 296 tcacagaagt atgccaagcg annntggtc
299 <210> SEQ ID NO: 17
300 <211> LENGTH: 29
301 <212> TYPE: DNA
302 <213> ORGANISM: Artificial Sequence
304 <220> FEATURE:
305 <223> OTHER INFORMATION: DW-P1-G
308 <220> FEATURE:
309 <221> NAME/KEY: misc_feature
310 <222> LOCATION: (22)..(24)
311 <223> OTHER INFORMATION: n is any base
313 <400> SEQUENCE: 17

W--> 314 tcacagaagt atgccaagcg annngggtc
317 <210> SEQ ID NO: 18
318 <211> LENGTH: 29
319 <212> TYPE: DNA
320 <213> ORGANISM: Artificial Sequence
322 <220> FEATURE:
323 <223> OTHER INFORMATION: DW-P1
326 <220> FEATURE:
327 <221> NAME/KEY: misc_feature
328 <222> LOCATION: (22)..(25)
329 <223> OTHER INFORMATION: n is any base
331 <400> SEQUENCE: 18

W--> 332 tcacagaagt atgccaagcg annnnggtc
335 <210> SEQ ID NO: 19
336 <211> LENGTH: 21
337 <212> TYPE: DNA
338 <213> ORGANISM: Artificial Sequence
340 <220> FEATURE:
341 <223> OTHER INFORMATION: JYC3
343 <400> SEQUENCE: 19

344 tcacagaagt atgccaagcg a
347 <210> SEQ ID NO: 20
348 <211> LENGTH: 20
349 <212> TYPE: DNA
350 <213> ORGANISM: Artificial Sequence
352 <220> FEATURE:
353 <223> OTHER INFORMATION: mTNFa-C1
355 <400> SEQUENCE: 20
356 caccttggcc tgcccatag
359 <210> SEQ ID NO: 21

↙ Same
errors

29

29 ~~#~~ 11 on

error
summary
sheet,

29

21

20

The type of errors shown exist throughout
the Sequence Listing. Please check subsequent
sequences for similar errors.

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/578,521

DATE: 05/17/2006
TIME: 10:12:57

Input Set : A:\50413.015001.txt
Output Set: N:\CRF4\05172006\J578521.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 22,23,24,25,26,27,28
Seq#:2; N Pos. 22,23,24,25,26,27,28
Seq#:3; N Pos. 22,23,24,25,26,27,28
Seq#:4; N Pos. 22,23,24,25,26,27,28
Seq#:5; N Pos. 26,27,28,29
Seq#:6; N Pos. 26,27,28
Seq#:7; N Pos. 26,27,28
Seq#:8; N Pos. 26,27,28
Seq#:9; N Pos. 26,27,28
Seq#:10; N Pos. 22,23,24,25
Seq#:11; N Pos. 23,24,25,26
Seq#:12; N Pos. 24,25,26,27
Seq#:14; N Pos. 22,23,24
Seq#:15; N Pos. 22,23,24
Seq#:16; N Pos. 22,23,24
Seq#:17; N Pos. 22,23,24
Seq#:18; N Pos. 22,23,24,25
Seq#:28; N Pos. 1,2,3,4,5,6

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/578,521

DATE: 05/17/2006

TIME: 10:12:57

Input Set : A:\50413.015001.txt

Output Set: N:\CRF4\05172006\J578521.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:32 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:50 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:68 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:86 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:104 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:140 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:158 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:176 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:194 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:230 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:260 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:278 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:296 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:314 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:332 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:458 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0